STIC Biotechnology Systems Branch
RAW SEQUENCE LISTING
ERROR REPORT

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Application Serial Number: 10/522,106

Source: PCT

Date Processed by STIC: 2-2-05

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1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
> http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

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2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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Revised 01/24/05

RAW SEQUENCE LISTING   DATE: 02/02/2005
PATENT APPLICATION: US/10/522,106   TIME: 15:31:41

      Input Set : A:\Sequence Listing.txt
      Output Set: N:\CRF4\02022005\J522106.raw

```
     2  <110> APPLICANT: Kogel, Karl-Heinz
     3         Huckelhoven, Ralph
     4         Trujillo, Marco
     6  <120> TITLE OF INVENTION: Method for Obtaining a Pathogen Resistance in Plants
     8  <130> FILE REFERENCE: 532622010500
C-->10  <140> CURRENT APPLICATION NUMBER: US/10/522,106
    11  <141> CURRENT FILING DATE: 2005-01-24
    13  <160> NUMBER OF SEQ ID NOS: 24
    14  <170> SOFTWARE: PatentIn Ver. 2.1
```

ERRORED SEQUENCES

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    45  <210> SEQ ID NO: 2
    46  <211> LENGTH: 112
    47  <212> TYPE: PRT
    48  <213> ORGANISM: Hordeum vulgare
W-->49  <400> SEQUENCE: 2
    50  Phe Lys Gly Ile Met Asn Glu Ile Ala Glu Leu Asp Gln Arg Asn Ile
    51    1               5                  10                  15
    52  Ile Glu Met His Asn Tyr Leu Thr Ser Val Tyr Glu Glu Gly Asp Ala
    53                 20                  25                  30
    54  Arg Ser Ala Leu Ile Thr Met Leu Gln Ala Leu Asn His Ala Lys Asn
    55                 35                  40                  45
E-->56  Gly Val Asp Val Val Ser Xaa Thr Arg Val Arg Thr His Phe Ala Arg
    57          50                  55                  60
    58  Pro Asn Phe Lys Arg Val Leu Ser Lys Val Ala Ala Lys His Pro Tyr
    59    65                  70                  75                  80
    60  Ala Lys Ile Gly Val Phe Tyr Cys Gly Ala Pro Val Leu Ala Gln Glu
    61                 85                  90                  95
    62  Leu Ser Asn Leu Cys His Glu Phe Asn Gly Lys Cys Thr Thr Lys Phe
    63                100                 105                 110
  2181  <210> SEQ ID NO: 16
  2182  <211> LENGTH: 939
  2183  <212> TYPE: PRT
  2184  <213> ORGANISM: Nicotiana tabacum
W-->2185 <400> SEQUENCE: 16
  2186  Met Gln Asn Ser Glu Asn His His Pro His His Gln His His His Ser
  2187    1               5                  10                  15
  2188  Asp Thr Glu Ile Ile Gly Asn Asp Arg Ala Ser Tyr Ser Gly Pro Leu
  2189                 20                  25                  30
  2190  Ser Gly Pro Leu Asn Lys Arg Gly Gly Lys Lys Ser Ala Arg Phe Asn
  2191                 35                  40                  45
```

(handwritten annotations: "pls explain location." "Xaa" "See error explanation on page 5." "Does Not Comply Corrected Diskette Needed (pg. 1, 3)")

```
2192 Ile Pro Glu Ser Thr Asp Ile Gly Thr Ser Val Gly Thr Gly Gly Lys
2193          50                  55                  60
2194 Ser Asn Asp Asp Ala Tyr Val Glu Ile Thr Leu Asp Val Arg Glu Asp
2195  65                  70                  75                  80
2196 Ser Val Ala Val His Ser Val Lys Thr Ala Gly Gly Asp Asp Val Glu
2197                  85                  90                  95
2198 Asp Pro Glu Leu Ala Leu Leu Ala Lys Gly Leu Glu Lys Lys Ser Thr
2199             100                 105                 110
2200 Leu Gly Ser Ser Leu Val Arg Asn Ala Ser Ser Arg Ile Arg Gln Val
2201          115                 120                 125
2202 Ser Gln Glu Leu Arg Arg Leu Ala Ser Leu Asn Lys Arg Pro Ile Pro
2203          130                 135                 140
2204 Thr Gly Arg Phe Asp Arg Asn Lys Ser Ala Ala Ala His Ala Leu Lys
2205 145                 150                 155                 160
2206 Gly Leu Lys Phe Ile Ser Lys Thr Asp Gly Gly Ala Gly Trp Ala Ala
2207                 165                 170                 175
2208 Val Glu Lys Arg Phe Asp Glu Ile Thr Ala Ser Thr Thr Gly Leu Leu
2209             180                 185                 190
2210 Pro Arg Ala Lys Phe Gly Glu Cys Ile Gly Met Asn Lys Glu Ser Lys
2211          195                 200                 205
2212 Glu Phe Ala Val Glu Leu Tyr Asp Ala Leu Ala Arg Arg Arg Asn Ile
2213          210                 215                 220
2214 Thr Thr Asp Ser Ile Asn Lys Ala Gln Leu Lys Glu Phe Trp Asp Gln
2215 225                 230                 235                 240
2216 Val Ala Asp Gln Ser Phe Asp Ser Arg Leu Gln Thr Phe Phe Asp Met
2217                 245                 250                 255
2218 Val Asp Lys Asp Ala Asp Gly Arg Ile Thr Glu Glu Glu Val Arg Glu
2219             260                 265                 270
2220 Ile Ile Gly Leu Ser Ala Ser Ala Asn Arg Leu Ser Thr Ile Gln Lys
2221          275                 280                 285
2222 Gln Ala Asp Glu Tyr Ala Ala Met Ile Met Glu Glu Leu Asp Pro Asn
2223          290                 295                 300
2224 Asn Leu Gly Tyr Ile Met Ile Glu Asn Leu Glu Met Leu Leu Leu Gln
2225 305                 310                 315                 320
2226 Ala Pro Asn Gln Ser Val Gln Arg Gly Gly Glu Ser Arg Asn Leu Ser
2227                 325                 330                 335
2228 Gln Met Leu Ser Gln Lys Leu Lys His Thr Gln Glu Arg Asn Pro Ile
2229             340                 345                 350
2230 Val Arg Trp Tyr Lys Ser Phe Met Tyr Phe Leu Leu Asp Asn Trp Gln
2231          355                 360                 365
2232 Arg Val Trp Val Leu Leu Leu Trp Ile Gly Ile Met Ala Gly Leu Phe
2233          370                 375                 380
2234 Thr Trp Lys Tyr Ile Gln Tyr Lys Glu Lys Ala Ala Tyr Lys Val Met
2235 385                 390                 395                 400
2236 Gly Pro Cys Val Cys Phe Ala Lys Gly Ala Ala Glu Thr Leu Lys Leu
2237                 405                 410                 415
2238 Asn Met Ala Ile Ile Leu Phe Pro Val Cys Arg Asn Thr Ile Thr Trp
2239          420                 425                 430
2240 Leu Arg Asn Lys Thr Arg Leu Gly Ala Ala Val Pro Phe Asp Asp Asn
```

RAW SEQUENCE LISTING   DATE: 02/02/2005
PATENT APPLICATION: US/10/522,106   TIME: 15:31:42

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02022005\J522106.raw

```
2241          435                    440                    445
2242 Leu Asn Phe His Lys Val Ile Ala Val Ala Ile Ala Leu Gly Val Gly
2243      450                    455                    460
2244 Ile His Gly Leu Ser His Leu Thr Cys Asp Phe Pro Arg Leu Leu Asn
2245 465                    470                    475                    480
2246 Ala Ser Glu Glu Glu Tyr Glu Pro Met Lys Tyr Tyr Phe Gly Asp Gln
2247                    485                    490                    495
2248 Pro Glu Ser Tyr Trp Trp Phe Ile Lys Gly Val Glu Gly Val Thr Gly
2249                500                    505                    510
2250 Ile Ile Met Val Val Leu Met Ala Ile Ala Phe Thr Leu Ala Thr Pro
2251           515                    520                    525
2252 Trp Phe Arg Arg Asn Arg Val Ser Leu Pro Lys Pro Phe His Lys Leu
2253      530                    535                    540
E--> 2254 Thr Gly Xaa Asn Ala Phe Trp Tyr Ser His His Leu Phe Val Ile Val
2255 545                    550                    555                    560
2256 Tyr Thr Leu Phe Ile Val His Gly Glu Lys Leu Tyr Ile Thr Lys Asp
2257                565                    570                    575
2258 Trp Tyr Lys Arg Thr Asp Met Asp Val Leu Leu Thr Ile Pro Ile Ile
2259                580                    585                    590
2260 Leu Tyr Ala Ser Glu Arg Leu Ile Arg Ala Phe Arg Ser Ser Ile Lys
2261      595                    600                    605
2262 Ala Val Lys Ile Leu Lys Val Ala Val Tyr Pro Gly Asn Val Leu Ala
2263      610                    615                    620
2264 Leu His Met Ser Lys Pro Gln Gly Tyr Lys Tyr Lys Ser Gly Gln Tyr
2265 625                    630                    635                    640
2266 Met Phe Val Asn Cys Ala Ala Val Ser Pro Phe Glu Trp His Pro Phe
2267                645                    650                    655
2268 Ser Ile Thr Ser Ala Pro Gly Asp Asp Tyr Leu Ser Val His Ile Arg
2269           660                    665                    670
2270 Thr Leu Gly Asp Trp Thr Arg Gln Leu Lys Thr Val Phe Ser Glu Val
2271           675                    680                    685
2272 Cys Gln Pro Pro Pro Asn Gly Lys Ser Gly Leu Leu Arg Ala Asp Tyr
2273      690                    695                    700
2274 Leu Gln Gly Glu Asn Asn Pro Asn Phe Pro Arg Val Leu Ile Asp Gly
2275 705                    710                    715                    720
2276 Pro Tyr Gly Ala Pro Ala Gln Asp Tyr Lys Lys Tyr Glu Val Val Leu
2277           725                    730                    735
2278 Leu Val Gly Leu Gly Ile Gly Ala Thr Pro Met Ile Ser Ile Val Lys
2279           740                    745                    750
2280 Asp Ile Val Asn Asn Met Lys Ala Met Asp Glu Glu Glu Asn Ser Leu
2281           755                    760                    765
2282 Glu Asp Gly His Asn Asn Asn Met Ala Pro Asn Ser Ser Pro Asn Ile
2283      770                    775                    780
2284 Ala Lys Asn Lys Gly Asn Lys Ser Gly Ser Ala Ser Gly Gly Asn Asn
2285 785                    790                    795                    800
2286 Phe Asn Thr Arg Arg Ala Tyr Phe Tyr Trp Val Thr Arg Glu Gln Gly
2287                805                    810                    815
2288 Ser Phe Asp Trp Phe Lys Gly Ile Met Asn Glu Ala Ala Glu Met Asp
2289           820                    825                    830
```

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

pls explain Xaa location,

pls see error explanation on page 5.

RAW SEQUENCE LISTING   DATE: 02/02/2005
PATENT APPLICATION: US/10/522,106   TIME: 15:31:42

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\02022005\J522106.raw**

```
2290 His Lys Gly Val Ile Glu Met His Asn Tyr Cys Thr Ser Val Tyr Glu
2291         835             840             845
2292 Glu Gly Asp Ala Arg Ser Ala Leu Ile Thr Met Leu Gln Ser Leu His
2293     850             855             860
2294 His Ala Lys Asn Gly Val Asp Ile Val Ser Gly Thr Arg Val Lys Ser
2295 865             870             875             880
2296 His Phe Ala Lys Pro Asn Trp Arg Asn Val Tyr Lys Arg Ile Ala Leu
2297             885             890             895
2298 Asn His Pro Glu Ala Lys Val Gly Val Phe Tyr Cys Gly Ala Pro Ala
2299         900             905             910
2300 Leu Thr Lys Glu Leu Arg Gln His Ala Leu Asp Phe Ser His Lys Thr
2301         915             920             925
2302 Ser Thr Lys Phe Asp Phe His Lys Glu Asn Phe
2303         930             935
```

VARIABLE LOCATION SUMMARY   DATE: 02/02/2005
PATENT APPLICATION: US/10/522,106   TIME: 15:31:43

     Input Set : A:\Sequence Listing.txt
     Output Set: N:\CRF4\02022005\J522106.raw,

Use of n's or Xaa's(NEW RULES): *Error Explanation: N*
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:1; Xaa Pos. 55
Seq#:2; Xaa Pos. 55
Seq#:15; N Pos. 1952
Seq#:15; Xaa Pos. 547
Seq#:16; Xaa Pos. 547

VERIFICATION SUMMARY   DATE: 02/02/2005
PATENT APPLICATION: US/10/522,106   TIME: 15:31:43

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\02022005\J522106.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:283 W: Missing Blank Line separator, <210> field identifier
L:19 M:283 W: Missing Blank Line separator, <220> field identifier
L:23 M:283 W: Missing Blank Line separator, <400> field identifier
L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:193
L:49 M:283 W: Missing Blank Line separator, <400> field identifier
L:56 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:69 M:283 W: Missing Blank Line separator, <220> field identifier
L:73 M:283 W: Missing Blank Line separator, <400> field identifier
L:255 M:283 W: Missing Blank Line separator, <400> field identifier
L:379 M:283 W: Missing Blank Line separator, <220> field identifier
L:383 M:283 W: Missing Blank Line separator, <400> field identifier
L:570 M:283 W: Missing Blank Line separator, <400> field identifier
L:698 M:283 W: Missing Blank Line separator, <220> field identifier
L:702 M:283 W: Missing Blank Line separator, <400> field identifier
L:904 M:283 W: Missing Blank Line separator, <400> field identifier
L:1032 M:283 W: Missing Blank Line separator, <220> field identifier
L:1036 M:283 W: Missing Blank Line separator, <400> field identifier
L:1234 M:283 W: Missing Blank Line separator, <400> field identifier
L:1364 M:283 W: Missing Blank Line separator, <220> field identifier
L:1368 M:283 W: Missing Blank Line separator, <400> field identifier
L:1556 M:283 W: Missing Blank Line separator, <400> field identifier
L:1680 M:283 W: Missing Blank Line separator, <220> field identifier
L:1684 M:283 W: Missing Blank Line separator, <400> field identifier
L:1868 M:283 W: Missing Blank Line separator, <400> field identifier
L:1990 M:283 W: Missing Blank Line separator, <220> field identifier
L:1994 M:283 W: Missing Blank Line separator, <400> field identifier
L:2102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:1935
M:341 Repeated in SeqNo=15
L:2185 M:283 W: Missing Blank Line separator, <400> field identifier
L:2254 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16
L:2309 M:283 W: Missing Blank Line separator, <220> field identifier
L:2313 M:283 W: Missing Blank Line separator, <400> field identifier
L:2477 M:283 W: Missing Blank Line separator, <400> field identifier
L:2589 M:283 W: Missing Blank Line separator, <220> field identifier
L:2593 M:283 W: Missing Blank Line separator, <400> field identifier
L:2763 M:283 W: Missing Blank Line separator, <400> field identifier
L:2879 M:283 W: Missing Blank Line separator, <220> field identifier
L:2883 M:283 W: Missing Blank Line separator, <400> field identifier
L:3059 M:283 W: Missing Blank Line separator, <400> field identifier
L:3179 M:283 W: Missing Blank Line separator, <220> field identifier
L:3182 M:283 W: Missing Blank Line separator, <400> field identifier
L:3190 M:283 W: Missing Blank Line separator, <220> field identifier
L:3193 M:283 W: Missing Blank Line separator, <400> field identifier